



## SEQUENCE LISTING

<110> Piechaczyk, Marc  
Noel, Daniele

<120> Biological material for treating a mammal by antibody gene transfer and pharmaceutical composition containing same

<130> 19904-002

<140> US 09-341,894

<141> 1998-01-16

<150> FR97/00540

<151> 1997-01-20

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 420

<212> DNA

<213> Mus musculus

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<221> CDS<222> (1)..(420)

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<221> misc\_feature<222> (1)..(420)

<223> Sequence coding for the variable region of the antibody heavy chain

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<221> sig\_peptide<222> (1)..(57)

<223>

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atg ggt tgg ctg tgg aac ttg cta ttc ctg atg gca gct gcc caa agt 48  
Met Gly Trp Leu Trp Asn Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
1 5 10 15

gcc caa gga cag atc cac ttg gta cag tct gga cct gag ctg aag aag 96  
Ala Gln Gly Gln Ile His Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
20 25 30

cct gga gag aca gtc aag atc tcc tgc aag gct tct ggg tat acc ttc 144  
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
35 40 45

aca tcg tat ggc ttg acc tgg gtg ata cag tct cca gga aag gat tta 192  
Thr Ser Tyr Gly Leu Thr Trp Val Ile Gln Ser Pro Gly Lys Asp Leu  
50 55 60

aaa tgg atg ggc tgg ata aac acc ttc tct gga gtg cca aca tat gct 240  
 Lys Trp Met Gly Trp Ile Asn Thr Phe Ser Gly Val Pro Thr Tyr Ala  
 65 70 75 80  
 gat gac ttc aag gga cgc ttt gcc ttc tct ttg gac acc tct acc agc 288  
 Asp Asp Phe Lys Gly Arg Phe Ala Phe Ser Leu Asp Thr Ser Thr Ser  
 85 90 95  
 act gcc tat ttg cag atc gac aac ctc aaa aat gag gac acg gct aca 336  
 Thr Ala Tyr Leu Gln Ile Asp Asn Leu Lys Asn Glu Asp Thr Ala Thr  
 100 105 110  
 tat ttc tgt tca aga agg ggg ggt ttt att act acg gct ctt gac acc 384  
 Tyr Phe Cys Ser Arg Arg Gly Gly Phe Ile Thr Thr Ala Leu Asp Thr  
 115 120 125  
 tgg ggc caa ggc acc tct ctc aca gtc tcc tca gcc 420  
 Trp Gly Gln Gly Thr Ser Leu Thr Val Ser Ser Ala  
 130 135 140

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<212> PRT

<213> Mus musculus

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<221> misc\_feature<222> (1)..(420)

<223> Sequence coding for the variable region of the antibody heavy chain

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Met Gly Trp Leu Trp Asn Leu Leu Phe Leu Met Ala Ala Ala Gln Ser  
 1 5 10 15

Ala Gln Gly Gln Ile His Leu Val Gln Ser Gly Pro Glu Leu Lys Lys  
 20 25 30

Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
 35 40 45

Thr Ser Tyr Gly Leu Thr Trp Val Ile Gln Ser Pro Gly Lys Asp Leu  
 50 55 60

Lys Trp Met Gly Trp Ile Asn Thr Phe Ser Gly Val Pro Thr Tyr Ala  
 65 70 75 80

Asp Asp Phe Lys Gly Arg Phe Ala Phe Ser Leu Asp Thr Ser Thr Ser  
 85 90 95

Thr Ala Tyr Leu Gln Ile Asp Asn Leu Lys Asn Glu Asp Thr Ala Thr  
 100 105 110

Tyr Phe Cys Ser Arg Arg Gly Gly Phe Ile Thr Thr Ala Leu Asp Thr  
 115 120 125

Trp Gly Gln Gly Thr Ser Leu Thr Val Ser Ser Ala  
 130 135 140

<210> 3  
 <211> 420  
 <212> DNA  
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<220>  
 <221> CDS  
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<220>  
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 Met Lys Leu Pro Gly Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala  
 1 5 10 15  
 tcc aat agt aat gtt gtg atg acc caa act cca ctc tcc ctg tct gtc 96  
 Ser Asn Ser Asn Val Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val  
 20 25 30  
 agt ctt gga gat caa gcc tcc atc tct tgc aga tct agt cag agc att 144  
 Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile  
 35 40 45  
 gta cat agt aat gga aac acc tat tta gaa tgg tac ctg cag aaa cca 192  
 Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro  
 50 55 60  
 ggc cag tct cca aag ctc ctg atc tat aaa gtt tcc aac cga ttg tct 240  
 Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Leu Ser  
 65 70 75 80  
 ggg gtc cca gac agg ttc agt ggc agt gga tca ggg aca gac ttc aca 288  
 Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
 85 90 95

ctc aaa atc agc aga gtg gag gct gag gat ctg gga ctt tat tac tgt 336  
 Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Leu Tyr Tyr Cys  
                   100                  105                  110

ttt caa ggt tca cat att cca ttc acg ttc ggt tcg ggg aca aag ttc 384  
 Phe Gln Gly Ser His Ile Pro Phe Thr Phe Gly Ser Gly Thr Lys Phe  
                   115                  120                  125

gaa ata aaa cgg gct gat gct gca cca act gta tcc 420  
 Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser  
                   130                  135                  140

<210> 4

<211> 140

<212> PRT

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)..(420)

<223> Sequence coding for the variable region of the antibody light chain

<400> 4

Met Lys Leu Pro Gly Arg Leu Leu Val Leu Met Phe Trp Ile Pro Ala  
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Ser Asn Ser Asn Val Val Met Thr Gln Thr Pro Leu Ser Leu Ser Val  
                   20                  25                  30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Ile  
                   35                  40                  45

Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Leu Gln Lys Pro  
                   50                  55                  60

Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Leu Ser  
 65                  70                  75                  80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
                   85                  90                  95

Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Leu Tyr Tyr Cys  
                   100                  105                  110

Phe Gln Gly Ser His Ile Pro Phe Thr Phe Gly Ser Gly Thr Lys Phe  
                   115                  120                  125

*Excluded*

Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser  
130 135 140

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